

# SEARCH REQUEST FORM

Requestor's Name: Matthew Zmurko Serial Number: 909379  
Date: 12/15/92 Phone: 308-3957 Art Unit: 2203

## Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

*Please search for a gadolinium complex of  
3,6,9-Triaza-3,6,9-tris(carboxymethyl)-4-(4-benzoyloxybenzyl)undecanoic acid*

*→ The claims 1-10 are attached*

*Note - please also search for a pharmaceutical composition which of the above complex*

*- Thank You*

## STAFF USE ONLY

Date completed: _____	Search Site	Vendors
Searcher: _____	_____ STIC	_____ IG Suite
Terminal time: _____	_____ CM-1	_____ STN
Elapsed time: _____	_____ Pre-S	_____ Dialog
CPU time: _____	Type of Search	_____ APS
Total time: _____	_____ N.A. Sequence	_____ Geninfo
Number of Searches: _____	_____ A.A. Sequence	_____ SDC
Number of Databases: _____	_____ Structure	_____ DARC/Questel
	_____ Bibliographic	_____ Other

Move

Text Search

Close

US PAT NO: 5,021,567 [IMAGE AVAILABLE] L3: 5 of 5  
TITLE: 8-hydroxyquinoline chelating agents

## ABSTRACT:

The present invention provides linear, cyclic and trifurcate tri- and tetramine backbone multidentate chelating agents based on the 8-hydroxyquinoline chelating unit. The chelating agents may optionally be substituted with a substate reactive moiety and antibody-metal ion conjugates may be produced for in vivo diagnostic and therapeutic methods.

=&gt;

=&gt; d hist

(FILE 'USPAT' ENTERED AT 11:04:44 ON 15 DEC 92)

SET PAGELength 62

SET LINELENGTH 78

L1 11310 S EDTA OR DPTA  
L2 122 S L1 AND GADOLINIUM  
L3 5 S L2 AND EDTA DERIVATIVE  
L4 0 S L2 AND DPTA DERIVATIVE

=&gt; d ti,pn fd l3 1-5

US PAT NO: 5,137,711 [IMAGE AVAILABLE] L3: 1 of 5  
TITLE: Paramagnetic DTPA and ~~EDTA~~ alkoxyalkylamide complexes as MRI agents  
DATE FILED: Jul. 13, 1989

US PAT NO: 5,130,120 [IMAGE AVAILABLE] L3: 2 of 5  
TITLE: Paramagnetic DTPA and ~~EDTA~~ alkoxyalkylamide complexes as MRI agents  
DATE FILED: Jul. 19, 1988

US PAT NO: 5,077,037 [IMAGE AVAILABLE] L3: 3 of 5  
TITLE: Novel compositions for magnetic resonance imaging  
DATE FILED: Aug. 3, 1990

US PAT NO: 5,057,302 [IMAGE AVAILABLE] L3: 4 of 5  
TITLE: Bifunctional chelating agents  
DATE FILED: Jan. 4, 1988

US PAT NO: 5,021,567 [IMAGE AVAILABLE] L3: 5 of 5  
TITLE: 8-hydroxyquinoline chelating agents  
DATE FILED: Sep. 24, 1987

=&gt;

INPUT:

=&gt; file reg

FILE 'REGISTRY' ENTERED AT 15:33:28 ON 15 DEC 92

USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT

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STRUCTURE FILE UPDATES: 11 DEC 92 HIGHEST RN 144900-80-1

DICTIONARY FILE UPDATES: 14 DEC 92 HIGHEST RN 144900-80-1

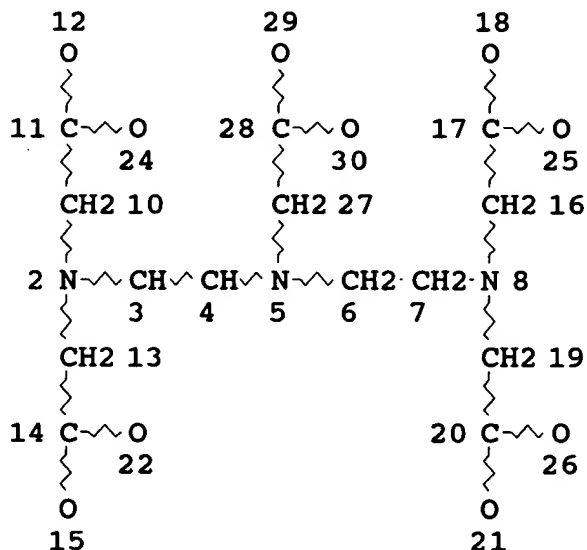
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=&gt; d que stat 17

L3 STR



NODE ATTRIBUTES: NONE

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 27

L5 STR

M 1

NODE ATTRIBUTES: NONE

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 1

L7 50 SEA FILE=REGISTRY SSS FUL L3 AND L5

100.0% PROCESSED 1105 ITERATIONS

SEARCH TIME: 00.00.07

50 ANSWERS

Some scanned structures  
from this set are at  
the end of the print-out.

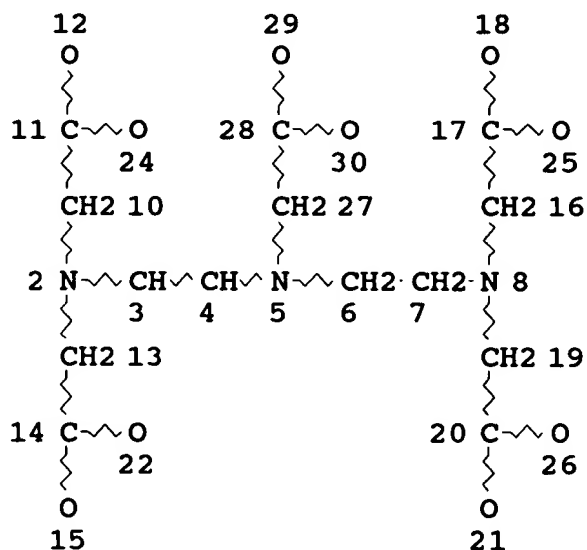
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L3 STR



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GRAPH ATTRIBUTES:

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NUMBER OF NODES IS 27

L5 STR

M 1

NODE ATTRIBUTES: NONE

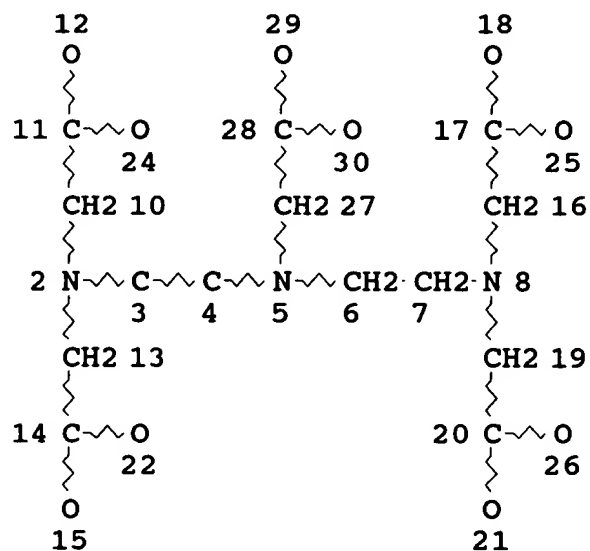
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RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 1

L7 50 SEA FILE=REGISTRY SSS FUL L3 AND L5

L8 STR



NODE ATTRIBUTES:

CONNECT IS E3 RC AT 3  
CONNECT IS E2 RC AT 4

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 27

L10 0 SEA FILE=REGISTRY SUB=L7 SSS FUL L8

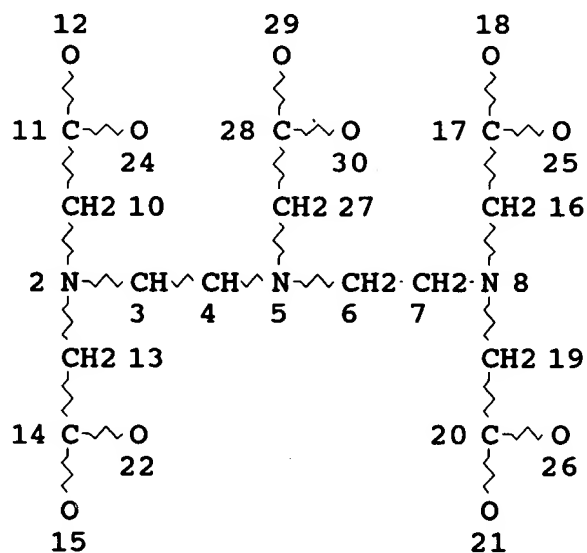
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L3 STR



NODE ATTRIBUTES: NONE

GRAPH ATTRIBUTES:

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NUMBER OF NODES IS 27

L5 STR

M 1

NODE ATTRIBUTES: NONE

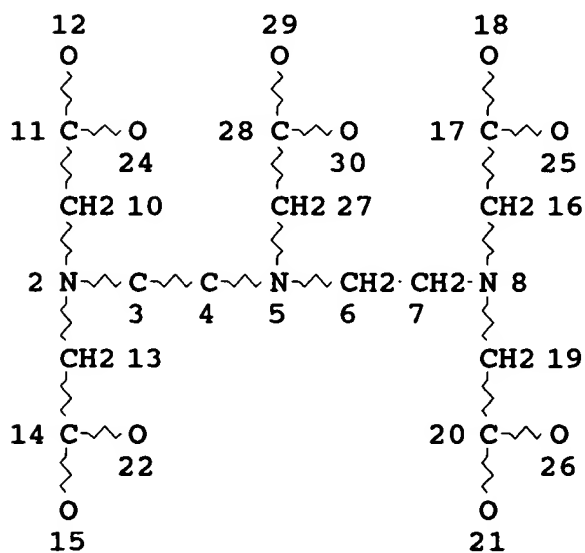
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NUMBER OF NODES IS 1

L7 50 SEA FILE=REGISTRY SSS FUL L3 AND L5

L11 STR



NODE ATTRIBUTES:

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CONNECT IS E3 RC AT 4

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 27

L13 0 SEA FILE=REGISTRY SUB=L7 SSS FUL L11

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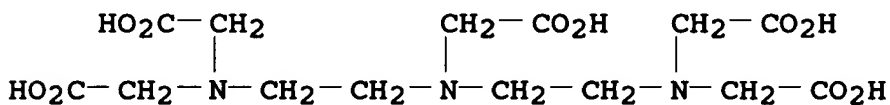
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=> d scan 17

L7 50 ANSWERS COPYRIGHT 1992 ACS

IN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, tin(2+) salt  
(2:5) (9CI)

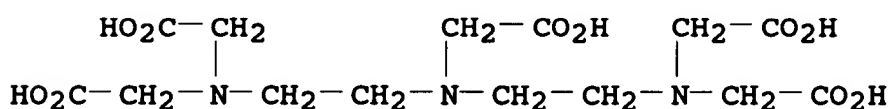
MF C14 H23 N3 O10 . 5/2 Sn



● 5/2 Sn(II)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L7 50 ANSWERS COPYRIGHT 1992 ACS  
 IN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, lead(2+)  
 potassium salt (1:2:1), tetrahydrate (9CI)  
 MF C14 H23 N3 O10 . 4 H2 O . K . 2 Pb



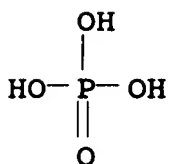
● K

● 4 H<sub>2</sub>O

● 2 Pb(II)

L7 50 ANSWERS COPYRIGHT 1992 ACS  
 IN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, polymer with  
 calcium hydroxide and phosphoric acid (9CI)  
 MF (C14 H23 N3 O10 . Ca H2 O2 . H3 O4 P)x  
 CI PMS

CM 1

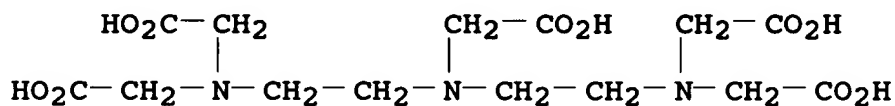


CM 2





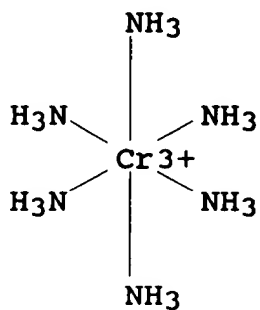
CM 3



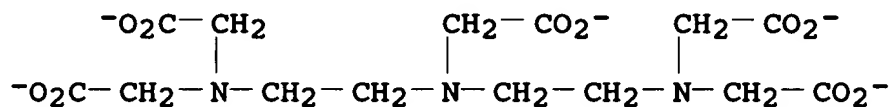
L7 50 ANSWERS COPYRIGHT 1992 ACS  
 IN Chromium(3+), hexaammine-, (OC-6-11)-, sodium salt with  
 N,N-bis[2-[bis(carboxymethyl)amino]ethyl]glycine (1:2:1),  
 pentahydrate (9CI)  
 MF C14 H18 N3 O10 . Cr H18 N6 . 5 H2 O . 2 Na

CM 1

CM 2

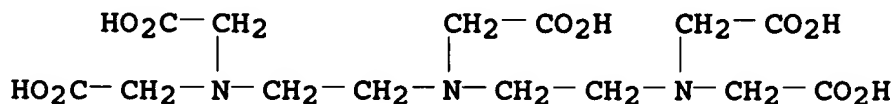


CM 3



L7 50 ANSWERS COPYRIGHT 1992 ACS  
 IN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, potassium salt

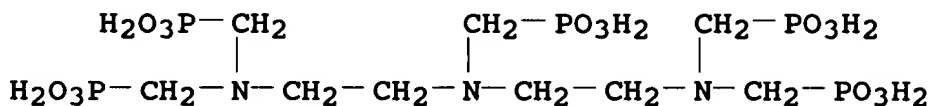
(9CI)  
MF C14 H23 N3 O10 . x K



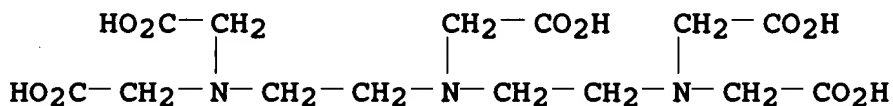
● x K

L7 50 ANSWERS COPYRIGHT 1992 ACS  
IN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, pentasodium salt, mixt. with [[(phosphonomethyl)imino]bis[2,1-ethanediyl]nitrilobis(methylene)]]tetrakis[phosphonic acid] (9CI)  
MF C14 H23 N3 O10 . C9 H28 N3 O15 P5 . 5 Na  
CI MXS

CM 1

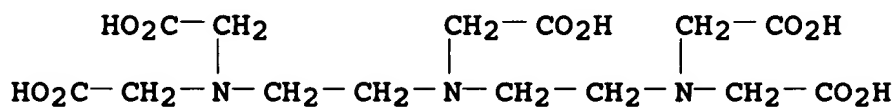


CM 2



● 5 Na

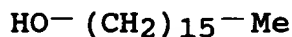
L7 50 ANSWERS COPYRIGHT 1992 ACS  
IN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, pentasodium salt (8CI, 9CI)  
MF C14 H23 N3 O10 . 5 Na  
CI COM



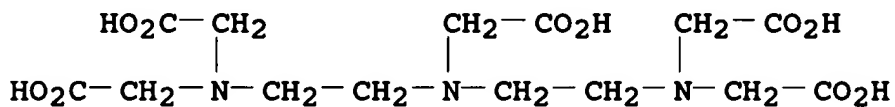
● 5 Na

L7 50 ANSWERS COPYRIGHT 1992 ACS  
 IN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, dihexadecyl  
 ester, sodium salt (9CI)  
 MF C46 H87 N3 O10 . x Na  
 CI IDS

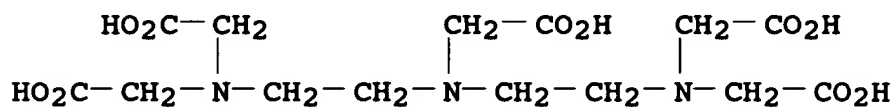
CM 1



CM 2



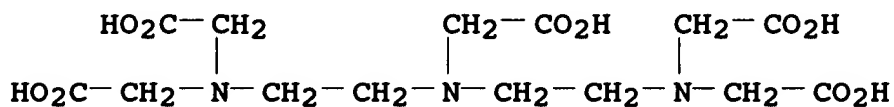
L7 50 ANSWERS COPYRIGHT 1992 ACS  
 IN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, lead(2+) salt  
 (1:1), dihydrate (9CI)  
 MF C14 H23 N3 O10 . 2 H2 O . Pb



● 2 H<sub>2</sub>O

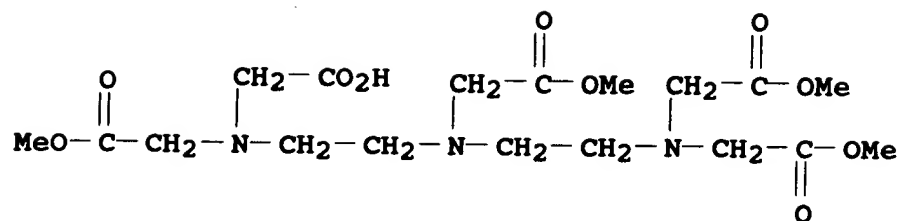
● Pb(II)

L7 50 ANSWERS COPYRIGHT 1992 ACS  
 IN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, tetrasodium  
 salt (9CI)  
 MF C14 H23 N3 O10 . 4 Na



● 4 Na

L7 50 ANSWERS COPYRIGHT 1992 ACS  
 IN 2-Oxa-5,8,11-triazatridecan-13-oic acid, 5-(carboxymethyl)-8,11-  
 bis(2-methoxy-2-oxoethyl)-3-oxo-, 13-methyl ester, potassium salt  
 (9CI)  
 MF C18 H31 N3 O10 . K



● K

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

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=> file home

FILE 'HOME' ENTERED AT 15:35:34 ON 15 DEC 92

=> d his

(FILE 'REGISTRY' ENTERED AT 14:58:31 ON 15 DEC 92)

L1 DEL HIS  
 L2 STR  
 L2 11 S L1  
 L3 SAVE TEMP L2 ZMURKO1/A  
 L3 STR L1  
 L4 11 S L3  
 L5 STR  
 L6 3 S L3 AND L5  
 L7 50 S L3 AND L5 FUL  
 L7 SAVE TEMP L7 ZMURKO2/A  
 L8 STR L3  
 L9 3 S L8  
 L10 0 SEARCH L8 SSS FUL SUB=L7  
 L10 SAVE TEMP L10 ZMURKO3/A  
 L11 STR L3  
 L12 1 S L11  
 L13 0 SEARCH L11 SSS FUL SUB=L7  
 L13 SAVE TEMP L13 ZMURKO4/A

FILE 'REGISTRY' ENTERED AT 15:33:28 ON 15 DEC 92

FILE 'HOME' ENTERED AT 15:35:34 ON 15 DEC 92